

p7 hexamerises in membranes of HepG2 cells

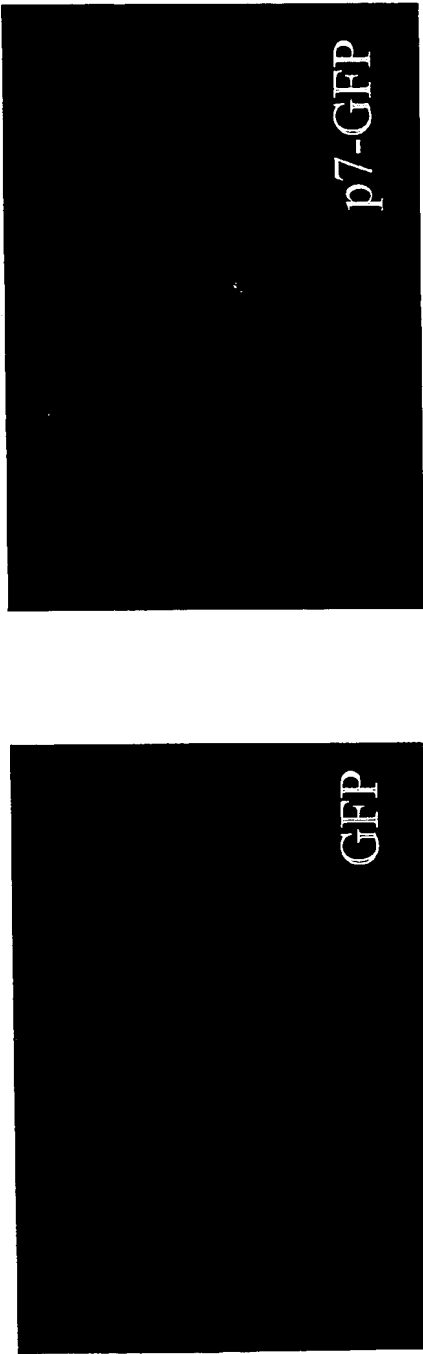
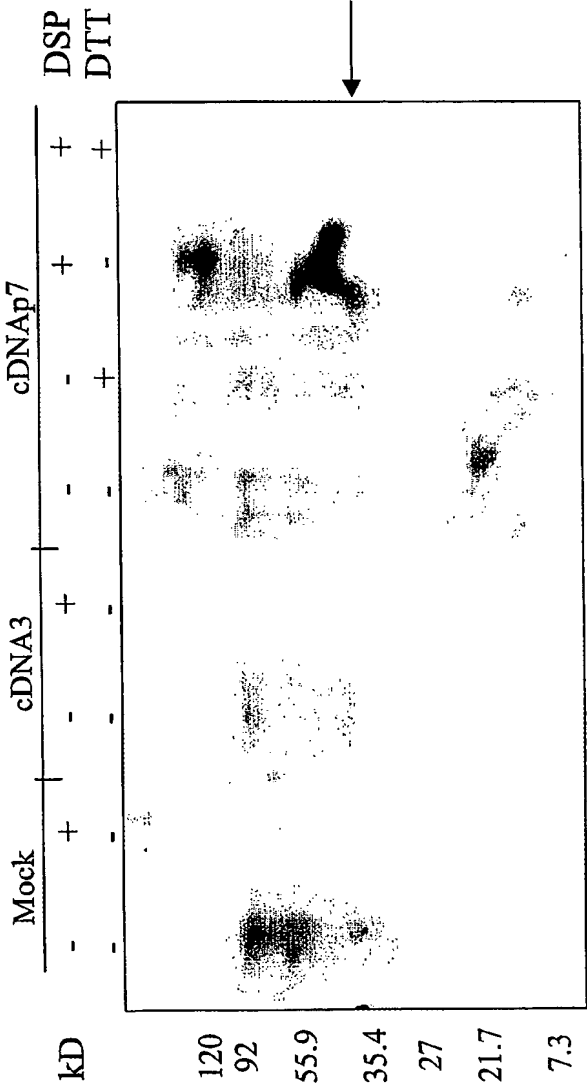
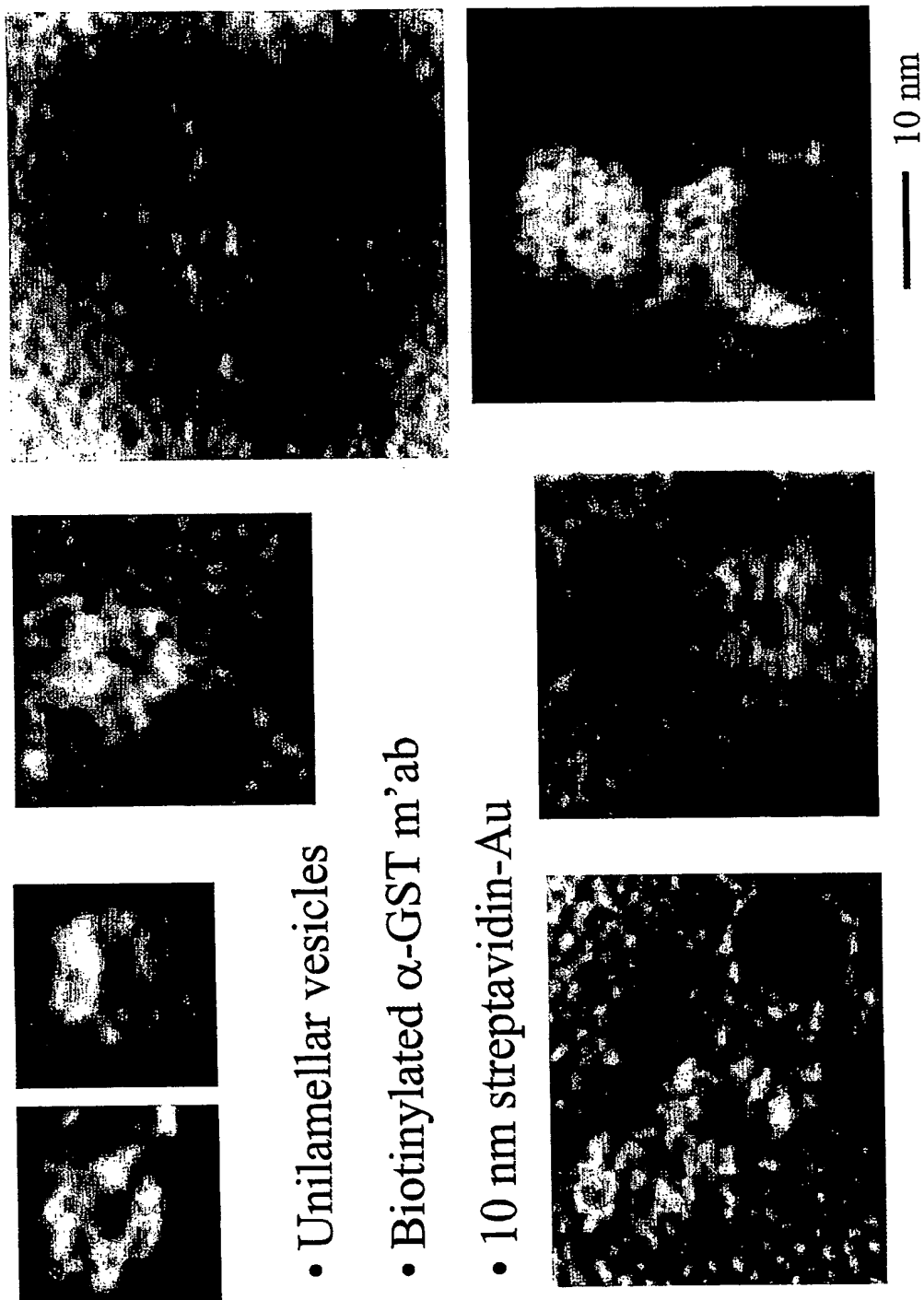


Figure 1

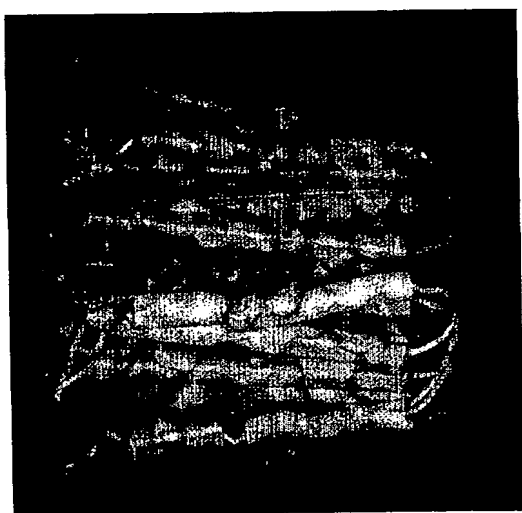
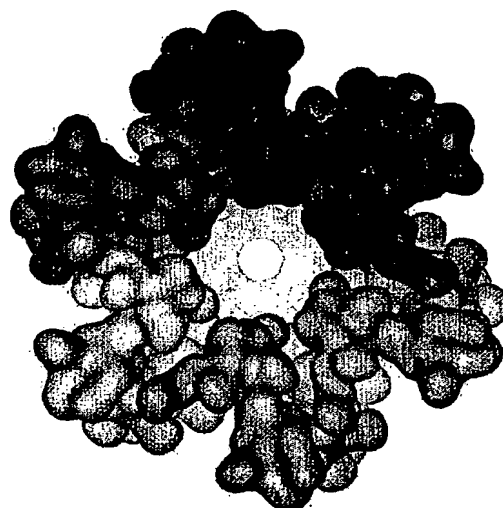
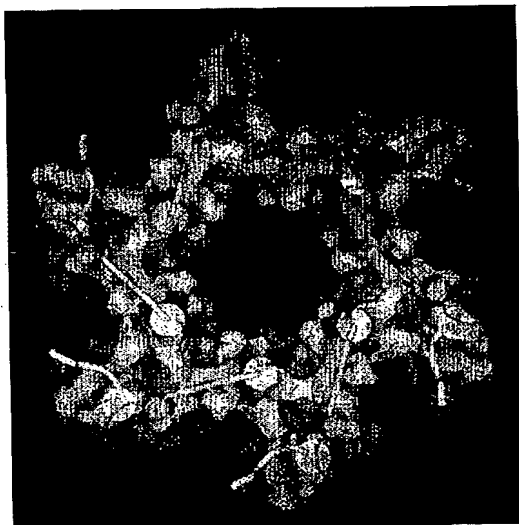


TEM of GSTp7 in liposomes

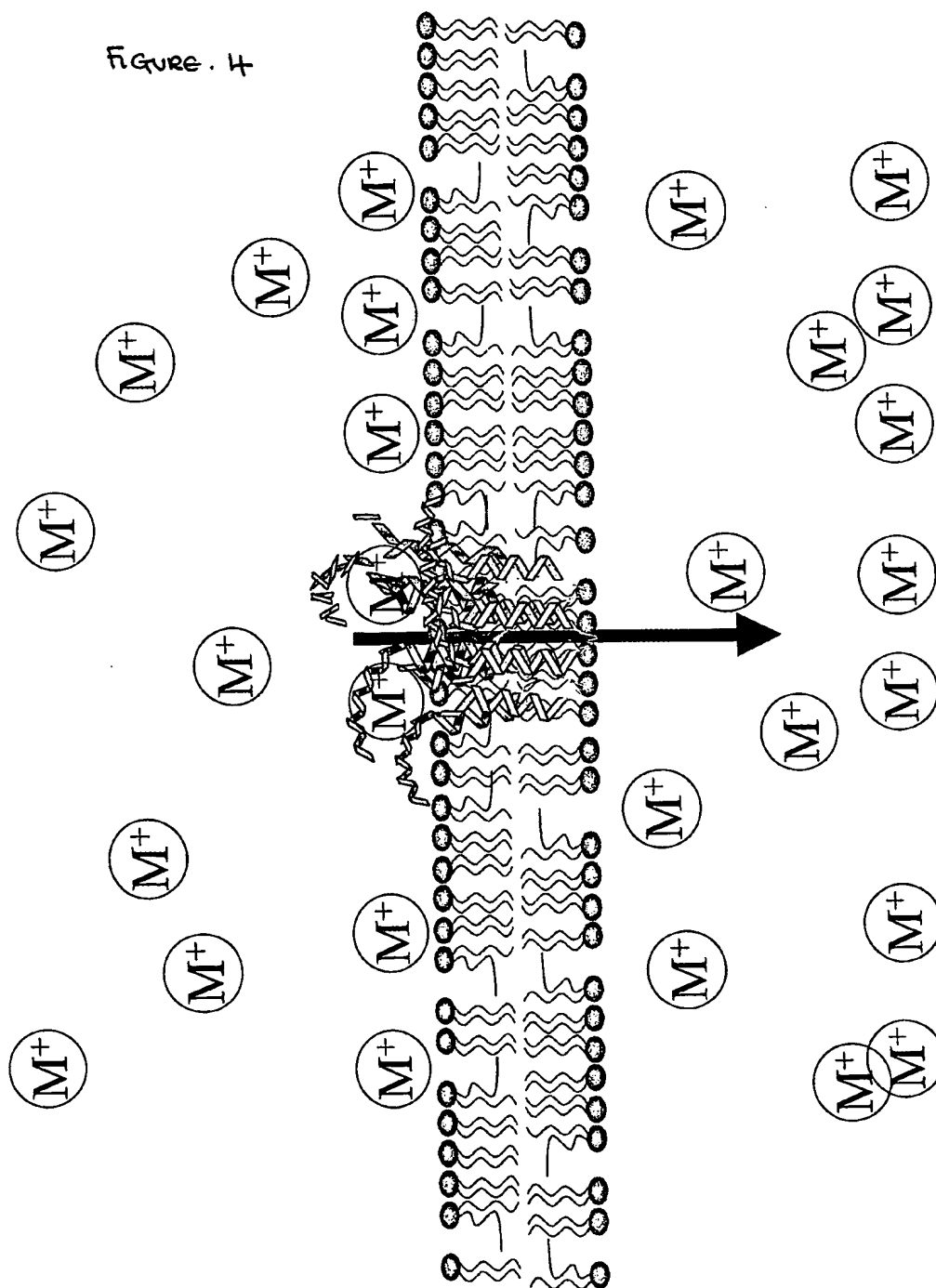


Computer modelling of p7 hexamerisation

FIGURE 3



Black Lipid Membranes (BLM)

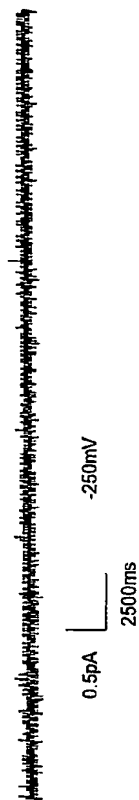


GSTp7 displays voltage-gated ion channel activity in Black Lipid Membranes (BLM)

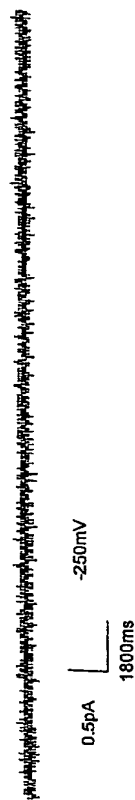
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No protein



+ GST



+ GSTp7

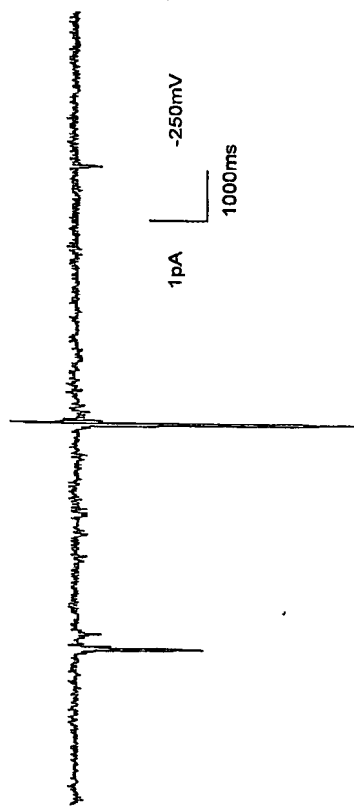


Figure 5

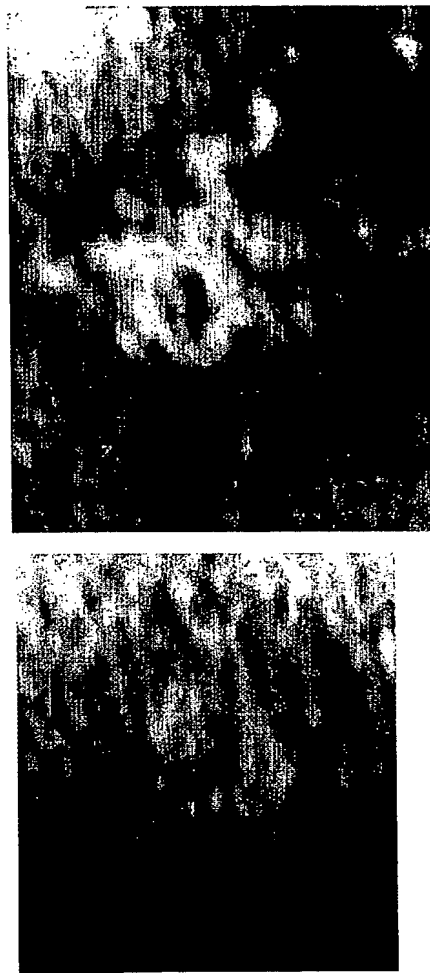
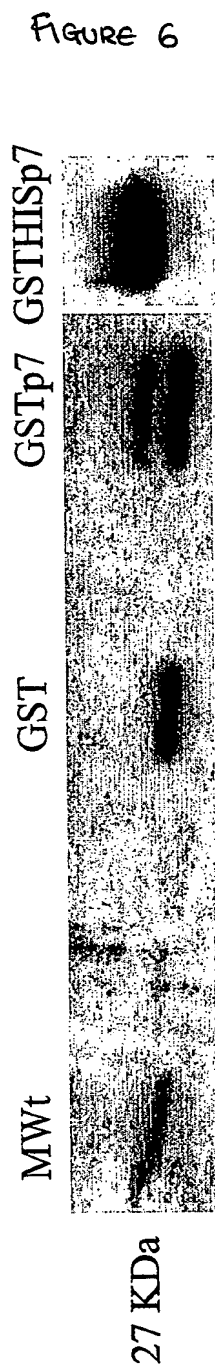
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Stabilisation of GST fusions by introduction of 6-HIS linker; GSTHISp7

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TEM of GSTHISp7

- Unilamellar vesicles
- Biotinylated α -GST m'ab
- 10 nm streptavidin-Au

GSTHISp7 shows calcium channel activity in BLM

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K⁺ Electrolyte
Ca²⁺ Electrolyte

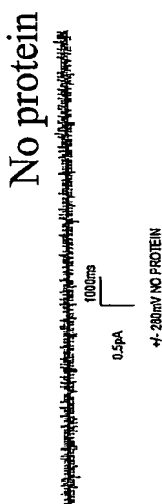
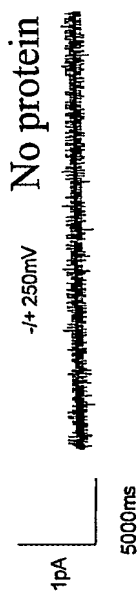
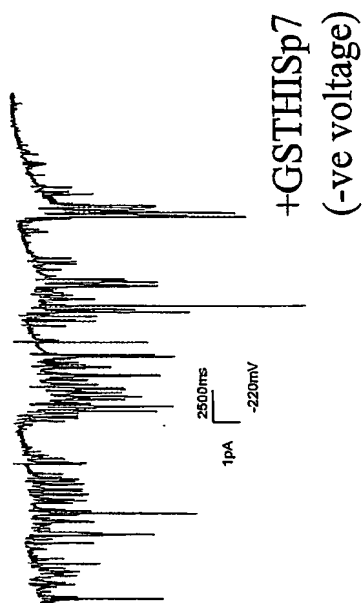
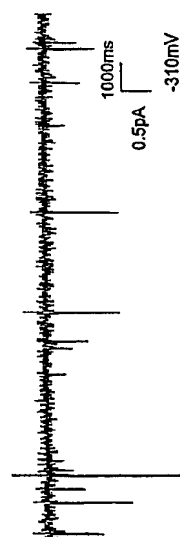


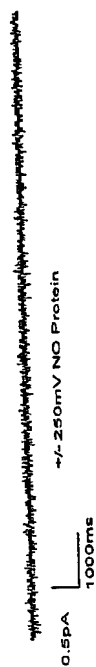
Figure 7

+GSTHISp7



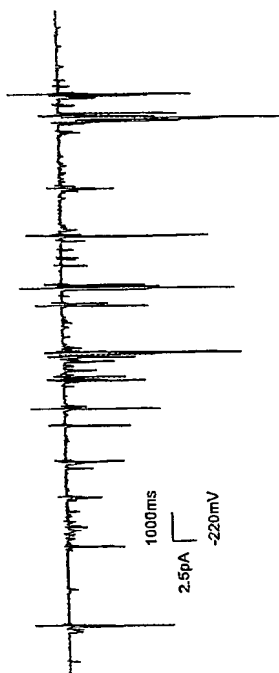
HISp7 forms Ca^{2+} channels in BLM with extremely high efficiency

No protein

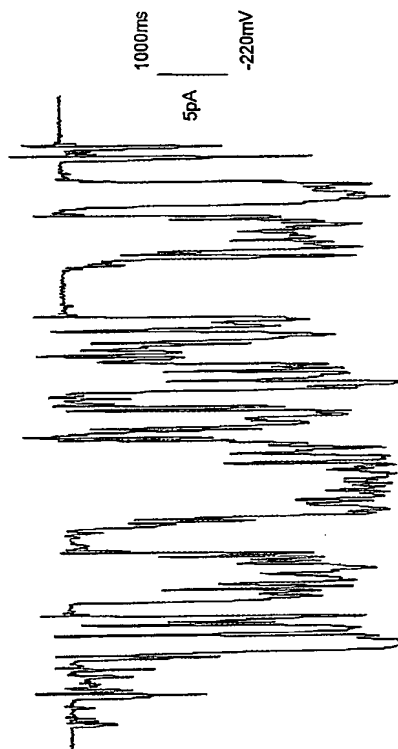


+ HISp7
(K^+ electrolyte)

Figure 8



+ HISp7
(Ca^{2+} electrolyte)



Amantadine inhibits ion channel formation by HISp7

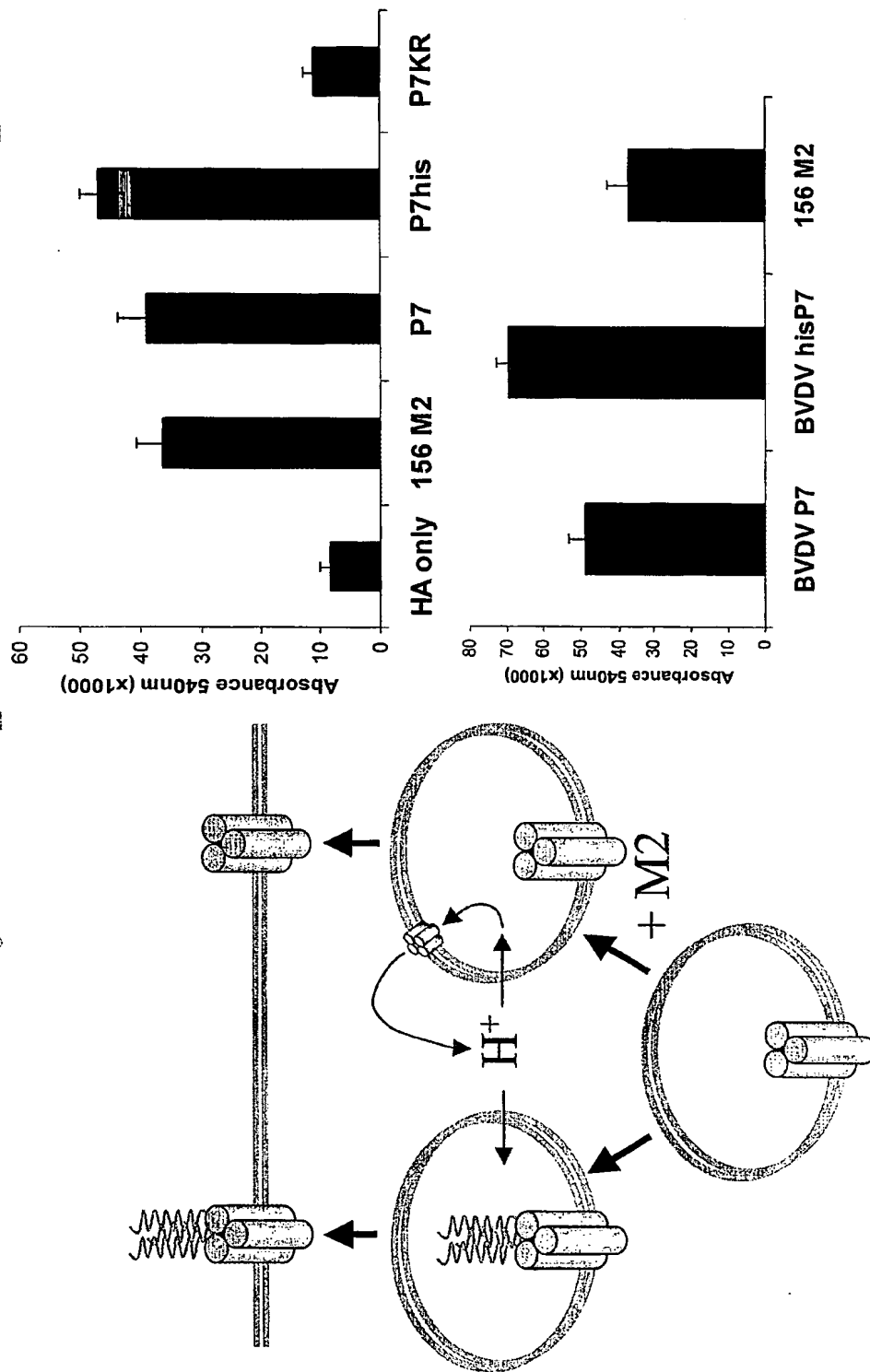
Figure 9



+ 40 μ l Amantadine (20 μ M)

Transport of functional influenza H5 HA is facilitated by co-expression with HCV p7

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Figure 10



HA transport is inhibited in the presence of Amantadine and by KR mutant

